

DataONE (Observation Network for Earth): Enabling New Science by Supporting the Management of Data Throughout its Life Cycle



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• Cliff Duke



• Carole Goble



• Donald Hobern



• David DeRoure



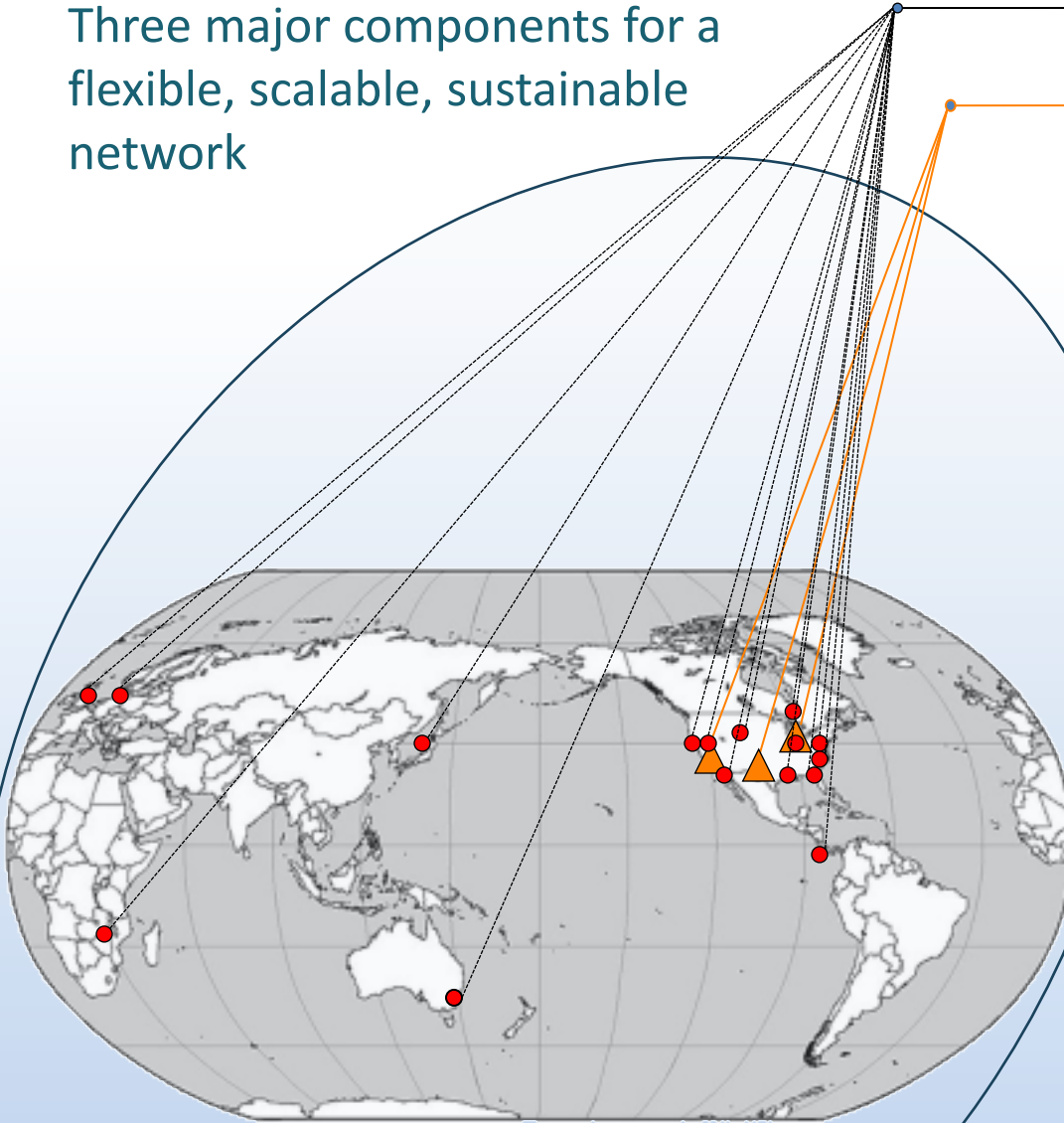
DataONE Cyberinfrastructure

Three major components for a flexible, scalable, sustainable network

Member Nodes

Coordinating Nodes

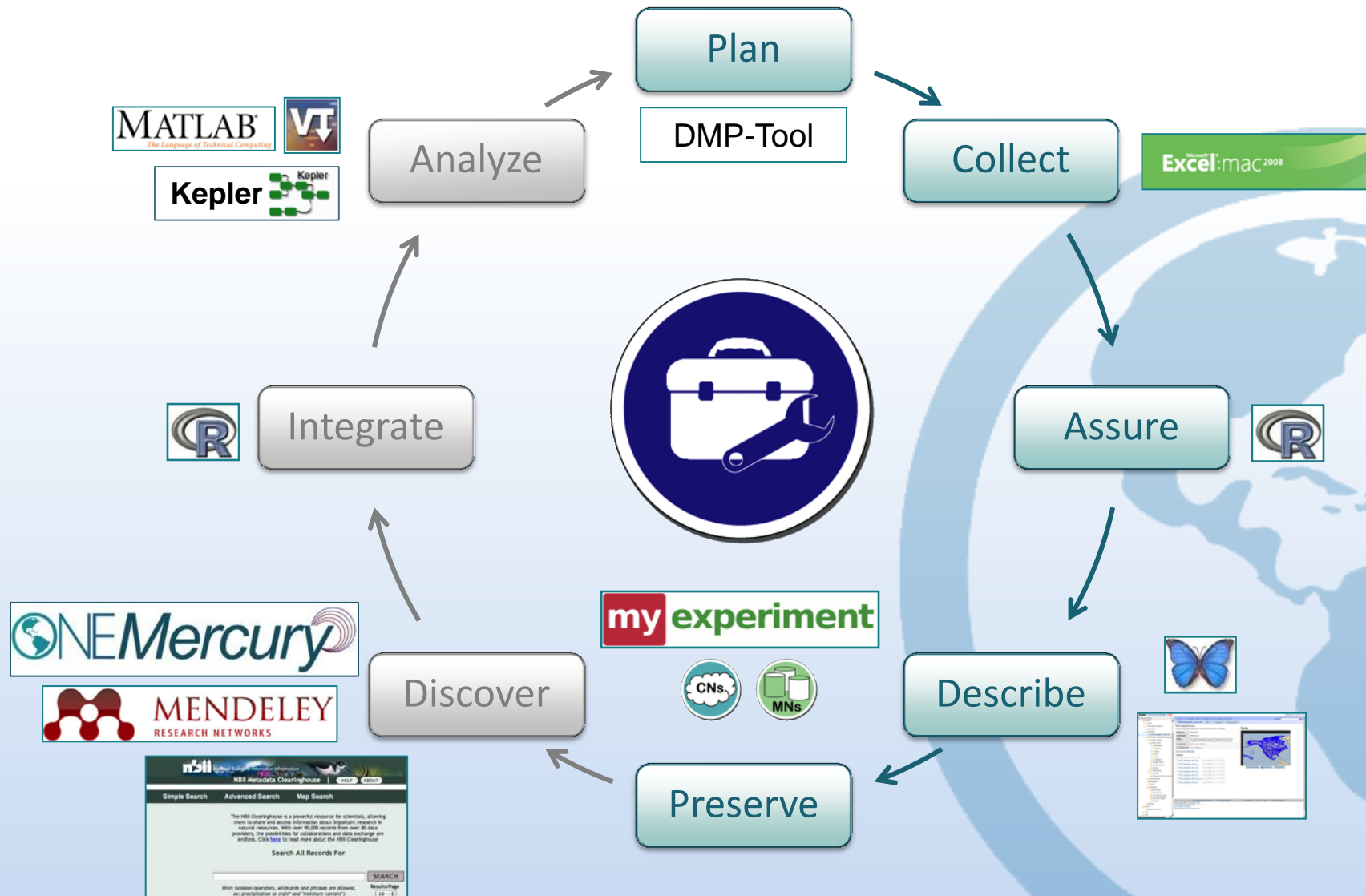
Investigator Toolkit



The DataONE Federation




Investigator Toolkit Activities



Data Management Planning Tool

<http://dmp.cdlib.org> November 1, 2011 = National Press Release




DMP TOOL

Build your data management plan

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Create ready to use data management plans for specific funding agencies

The DMP Tool allows you to:

- Meet funder requirements for data management plans.
- Get step by step instructions and guidance for your data management plan as you build it.
- In many cases, get institution specific advice and assistance.

Sign up and start building your data management plan now!

Data Management Plan

As indicated in the past events and ongoing, the DMP Tool has a track record of helping staff, faculty or principal investigator of potential research data and how activity plans and communication the results with the scientific community in conferences and other scientific activities.

Section 5: Types of data to be produced

Types of data, research, research, software, software, software, and other materials to be produced in the course of the project.

The plan to manage and store research data produced under this award as well as the associated metadata that describes the data, including procedures, hardware, software and data analysis methods. Metadata, data or raw data, study of specific papers, plans for future studies, peer reviews, communications with colleagues and other contacts are not included in this plan. Also included are data access, communication information, metadata necessary to be kept confidential until they are submitted, or any information protected under law.

See a plan created with the DMP Tool

Recent DMP News

- [Open Access and Climate Research Data](#)
- [Data, Data Everywhere...A Deluge of Data Management Articles](#)
- [University of Illinois at Urbana-Champaign joins DMP Tool partners](#)
- [Funder X now available in DMP Tool](#)
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ONE Mercury

- An advanced data discovery tool
- Enables search and retrieval of content indexed by DataONE
- Primary web based user interface for DataONE
- Operates on each Coordinating Node
- Same SOLR / Lucene index is utilized by other client tools

The screenshot displays the ONE Mercury web interface. At the top, the logo features a globe icon and the text "ONE Mercury". Below the logo is a search bar with the text "Search For:" and a "SEARCH" button. A hint below the search bar reads: "Hint: boolean operators, wildcards and phrases are allowed. ex: precipitation or (rain* and \"moisture content\")".

Below the search bar are two main sections: "Fielded Search" and "Date Search".

Fielded Search includes three input fields for "FullText" and "OR" operators, with a "Help | clear" link.

Date Search includes radio buttons for "Collection Date", "Publication Date", and "Either", a "during" dropdown, and date input fields for "mm/dd/yyyy" and "thru" with a "Help | clear" link.

Geographic Search features a world map with labels for continents and oceans. To the right of the map is a "List Areas in:" section with radio buttons for "USA" and "WORLD", a "Select from list" dropdown, and a "Search Area:" section with radio buttons for "overlaps" and "encloses", and input fields for "North", "West", "East", and "South".

Below the map is a "Place Name:" input field and a "view on map" button, with a "Help | clear" link.

At the bottom, there are two sections: "Content Type" and "Member Nodes".

Content Type includes a list of options: "All", "Maps and Data", "Publications", and "Tools and Software".

Member Nodes includes a list of options: "All", "ORNL Distributed Active Archive Center for Biogeochemical Dynamics (OR)", "Dryad", "NBII Metadata Clearinghouse", "All NBII Partner Nodes", and "NBII Metadata Clearinghouse Principal Node".

At the very bottom, there is a "Selected Query (Not Editable)" section.

Your search found: 10 documents.

Query: text : water

Filter by author	Filter by keywords	Filter by Originator
Cain James William (1) Farnsworth Elizabeth (1) Kratz Timothy (1) Sandoval Cristina P. (1) Van Schalkwyk (1) Washburn Libe (1) Wilson Gail (1)	North Temperate Lakes - LTER (2) abundance (2) density (2) plankton (2) zooplankton (2) 2000 (1) 2005 (1)	Channel Islands National Marine Sanctuary; Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) (1) Coal Oil Point Natural Reserve; University of California Natural Reserve System; University of

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[Return to Search](#)

Sort By: [Relevance](#) [Date Range](#) [Source](#)

Filter by Data Providers

[DEMO3 \(9\)](#)
[R2D2 \(1\)](#)

ABIOTIC MONITORING OF PHYSICAL CHARACTERISTICS IN POREWATERS AND SURFACE WATERS OF MANGROVE FORESTS FROM THE SHARK RIVER SLOUGH AND TAYLOR SLOUGH, EVERGLADES NATIONAL PARK, SOUTH FLORIDA FROM DECEMBER 2000 TO MAY 2005 01/01/36875 - 01/01/38498

Datasource: DEMO3

Data on porewater salinity, temperature, conductivity, pH and redox have been collected to help explain patterns found in porewater nutrient concentrations that were sampled in the same plots. ...

★★★★★★★★★

[Find similar data](#) [View full metadata](#)

CINMS/PISCO: PHYSICAL OCEANOGRAPHY: BOTTOM-MOUNTED ADCP DATA: SAN MIGUEL ISLAND, CALIFORNIA, USA (BAYXXX)

12/15/2005 - 03/23/2006

Datasource: R2D2

This metadata record describes bottom-mounted ADCP data collected at San Miguel Island, California, USA, by PISCO. Measurements were collected using an RDI 600 kHz Workhorse Sentinel ADCP beginning 2005-12-15. The instrument depth was 015 meters, in an overall water depth of 015 meters (both relative to Mean Sea Level, MSL). The instrument was programmed with a sampling interval of 2.0 minutes and a vertical resolution of 1 meter....

★★★★★★★★★

[Find similar data](#) [View full metadata](#)

NORTH TEMPERATE LAKES LTER: ZOOPLANKTON - TROUT LAKE AREA

04/22/1981 - 11/12/2008

Datasource: DEMO3

Zooplankton samples are collected from the seven primary northern lakes (Allequash, Big Muskellunge, Crystal, Sparkling, and Trout lakes and bog lakes 27-02 [Crystal Bog], and 12-15 [Trout Bog]) at two to nine depths using a 2 m long Schindler Patalas trap (53um mesh) and with vertical tows (1 m above the bottom of the lake to the surface) using a Wisconsin net (80um mesh). Zooplankton samples are preserved in buffered formalin (up until the year 2000) or 80% ethanol (2001 onwards) and archived. Data are summed over sex and stage and integrated volumetrically over the water column to p...

★★★★★★★★★

[Find similar data](#) [View full metadata](#)

LITTLE ROCK LAKE EXPERIMENT: ZOOPLANKTON

08/20/1983 - 10/23/2000

Datasource: DEMO3

The Little Rock Acidification Experiment was a joint project involving the USEPA (Duluth Lab), University of Minnesota-Twin Cities, University of



A Search Tool for Scientific Data

mercury.ornl.gov/pilotcatalog2/send/query?term1=water

ONE Mercury

Your search found: 1
Query: text :

Filter by author

Cain James William (1)
Farnsworth Elizabeth (1)
Kratz Timothy (1)
Sandoval Cristina P. (1)
Van Schalkwyk (1)
Washburn Libe (1)
Wilson Gail (1)

Filter by keyword

North Temperate Lakes LTER (2)
abundance (2)
density (2)
plankton (2)
zooplankton (2)
2000 (1)

Filter by location

Coastal Oceans (PISCO) (1)
Coal Oil Point Natural Reserve;
University of California Natural
Reserve System: University of

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R2D2 (1)

ABIOTIC MONITORING OF PHYSICAL CHARACTERISTICS IN POREWATERS AND SURFACE WATERS OF MANGROVE FORESTS FROM THE SHARK RIVER SLOUGH AND TAYLOR SLOUGH, EVERGLADES NATIONAL PARK, SOUTH FLORIDA FROM DECEMBER 2000 TO MAY 2005

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★★★★★★★★★★

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NORTH TEMPERATE LAKES LTER: ZOOPLANKTON - TROUT LAKE AREA

04/22/1981 - 11/12/2008

Select which items you'd like to add to your library

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- ☒ CINMS/PISCO: Physical Oceanography: bottom-mounted ADC...
- ☐ North Temperate Lakes LTER: Zooplankton - Trout Lake Area
- ☐ Little Rock Lake Experiment: Zooplankton
- ☒ Behavior, Activity Patterns and Foraging Strategies of Beaver (...)
- ☒ Soil Warming Experiment - Phenology and Growth of Vegetat...
- ☐ Bone density and Calcium and Phosphorus content of the gir...
- ☐ Nest Success of the Yellow Warblers (Dendroica petechia) and...
- ☐ Mycorrhizal Suppression Plots
- ☐ Coal Oil Point Natural Reserve Annual Report

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Your search found: 10 documents.
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01/01/36875 - 01/01/36498

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★★★★★★★★★

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Ecological Metadata Language (EML) Specification		
Soil Warming Experiment - Phenology and Growt...		

Info Notes Tags Related

Item Type: Web Page

Title: Content Standard for Digital Geospatial Metadata — Federal Geographic Data Committee

Author: (last), (first)

Abstract:

Website Title:

Website Type:

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Short Title:

URL: http://www.fgdc.gov/metadata/csdg...

Accessed: Sat May 7 07:20:37 2011

Language:

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DataONE Users Group

- represents the **needs and interests** of the stakeholders
- provides **feedback** on DataONE services
- **reviews** DataONE policies and procedures
- identifies and promotes **sustainability** approaches
- maintains effective **communication** and coordination



DataONE.org







New DataONE Education Resources



Coming Soon

Latest News

es Live Posted: 10/7/2011

DataONE Learning Modules available online Posted: 08/22/2011

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